

ACC NR: AT6034358

SOURCE CODE: UR/0000/66/000/000/0161/0169

AUTHOR: Zubritskiy, L. A.

ORG: Kharkov State University (Khar'kovskiy gosudarstvennyy universitet)

TITLE: Stabilization of the input resistance of channel transistors by extracting minority carriers

SOURCE: AN UkrSSR. Poluprovodnikovaya tekhnika i mikroelektronika (Semiconductor engineering and microelectronics). Kiev, Naukova dumka, 1966, 161-169

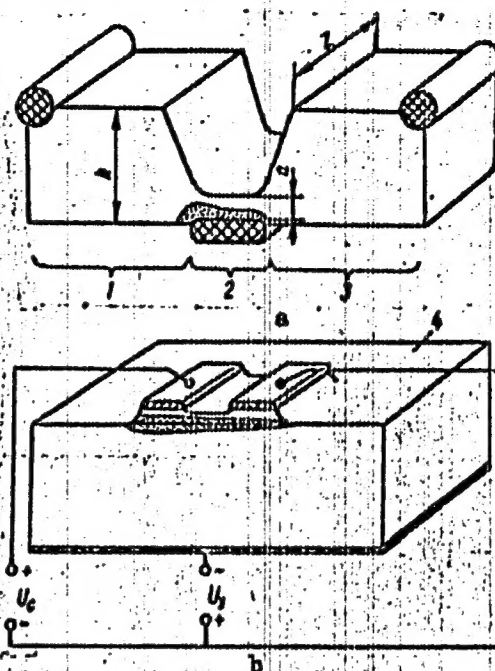
TOPIC TAGS: transistor, pn junction, semiconductor device, electric resistance, minority carrier

ABSTRACT: A method for heat stabilization of the reverse current of a pn junction is proposed for channel transistors (see Fig. 1). The conditions of extraction of minority carriers by the pn junction of the gate differ considerably from those in a diode. In channel transistors there is an electric field between the drain and the source which can transfer minority carriers from distant regions of the semiconductor to the gate. The use of an additional gate provides effective extraction of thermogenerated and injected minority carriers in the drain region. The use of minority-carrier extraction to stabilize the input parameters of channel transistors makes it possible to expand the working temperature range and to avoid negative input resistance. This method can be used in other semiconductor devices in which minority

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Fig. 1. Channel transistors:  
1 - drain region; 2 - channel  
region; 3 - source region



carriers do not play a useful role in the main volume of the semiconductor. Orig.  
art. has: 5 diagrams and 3 graphs.

Card 2/2 SUB CODE: 09/ SUBM DATE: --Jan65/ ORIG REF: 004/ OTH REF: 001

CHERKASOVA, L. A.; BAL'YAN, Kh.V.; ZUBRITSKIY, L. M.

Reactions of unsaturated compounds with halides of the allyl  
type. Part 1: Telomerization of piperylene and isoprene hydro-  
bromides with diene hydrocarbons. Zhur. ob. Khim. 34 no.6:1917-  
1925 Je '64. (MIRA 1717)  
1. Leningradskiy tekhnologicheskiy institut imeni Lenseveta.

ZUBRITSKIY, M.

Planning the increase of labor productivity taking into consideration  
organizational and technical measures. Sots.trud. 8 no.3:19-26

Mr '63.

(MIRA 16:3)

(Labor productivity)

(Technological innovations)

BALAYEV, Gurgun Ashotovich; VASIL'YEV, Valeriy Vladimirovich;  
ZUBRITSKIY, M. P., ed.

[Epoxy resins and compounds and the economic efficiency of  
their use] Epoksidnye smoly i kompauudy i ekonomicheskaya  
effektivnost' ikh primeneniia. Leningrad, 1965. 35 p.  
(MIRA 18:7)

ZUBRITSKIY, M.P., kandidat ekonomicheskikh nauk.

"Red Chemist" Plant in the struggle to lower production costs.  
Khim.prom. no.2:65-69 Mr '54. (MIRA 7:6)  
(Efficiency. Industrial) (Socialist competition)

MALLER, O., Dr.; ZUBRITZKY, P., dr.; CONSTANTINESCU, G., dr.

~~CONFIDENTIAL~~  
Therapeutic results of chlorpromazine in psychiatric emergencies.  
Med. int., Bucur. 4 no.8:1225-1229 Dec 56.

1. Lucrare efectuata in sectia de psihiatrie a Spitalului nr. 9.  
(MENTAL DISORDERS, therapy  
chlorpromazine, in psychiatric emergencies, results)  
(CHLORPROMAZINE, ther. use  
ment. disord., in acute phases, results)

TIKHONOVA, T.I.; GERTSBERG, L.Ya.; ZUBRITSKIY, P.V.

Photometric method for determining furfurole in aqueous and  
chlorobenzene solutions. Zhur.anal.khim. 17 no.2:245-247 Mr-Ap  
'62. (MIRA 15:4)

(Furaldehyde) (Photometry)



ZUBRITSKIY, S.I.

Device for testing dial gauges. Izv.tekh.no.6:79 N-D '56.  
(Gauges) (Measuring instruments) (MLRA 10:1)

FIONOV, N.; ZUBRITSKIY, V.

Direct method of operation. Mor. flot 22 no.9:10-13  
S '62.

(MIRA 15:12)

1. Nachal'nik otдела mekhanizatsii i tekhnologii  
Gosudarstvennogo proyektno-konstruktorskogo i nauchno-  
issledovatel'skogo instituta morskogo transporta (for Fionov).
2. Rukovoditel' gryppy otдела portov i morskikh putey  
Gosudarstvennogo proyektno-konstruktorskogo i nauchno-  
issledovatel'skogo instituta morskogo transporta (for  
Zubritskiy).

(Cargo handling)

ACCESSION NR: AP4019865

8/0181/64/006/003/0942/0943

AUTHORS: Zubritskiy, V. G.; Sarduk, V. V.

TITLE: Short wave extinction of photoconductivity in cadmium sulfide

SOURCE: Fizika tverdogo tela, v. 6, no. 3, 1964, 942-943

TOPIC TAGS: photoconductivity, monochromatic light, infrared light, ultraviolet light, semiconductor conductivity, crystal property

ABSTRACT: If a crystal of CdS is illuminated simultaneously by short-wave light, producing a photocurrent (from a heating lamp and a filter of  $\text{CuSO}_4$  in solution), and by monochromatic light incident on a surface of the crystal in a narrow beam (serving as a probe), it is possible to observe a decrease in the photocurrent produced by the primary light beam. This effect does not depend on the incidence of the light beam on one side or the opposite. The spectral distribution of short-wave extinction is shown in Fig. 1 on the Enclosure. The extinction of photocurrent by short-wave light manifests the same features as extinction by infrared light. The photocurrent flowing through a crystal reaches a maximum at and near the

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ACCESSION NR: AP4019865

contacts of the crystal during illumination with the probe. This means that a zone of high resistance occurs near the contacts, and the greater part of the voltage applied to the sample falls in the contact layers. Short-wave extinction of photocurrent is observed only when the central part of the crystal is illuminated and when the voltage here is low. The phenomenon may be caused by the formation of a local space charge in the region illuminated by the probe. Orig. art. has: 2 figures.

ASSOCIATION: Odesskiy gosudarstvennyy universitet im. I. I. Mechnikova (Odessa State University)

SUBMITTED: 17Jul63

DATE ACQ: 31Mar64

EWOL: 01

SUB CODE: EC, SS

NO REF SOV: 001

OTHER: 001

Card 2/3

ZUBRITSKIY, V.G.; SERDYUK, V.V.

Short-wave quenching of the photoconductivity of cadmium sulfide.  
Fiz. tver. tela 6 no.3:942-943 Mr '64. (MIRA 17:4)

1. Odesskiy gosudarstvennyy universitet imeni Mechnikova.

ZUBRITSKIY, V.I.

Treatment of priapism with leeches. Urologia 25 no.2:61-62  
Mr-Apr '60.

(LEECHES—THERAPEUTIC USE) (PENIS—DISEASES)

(MIRA 13:12)

VOLCSTNYKH, V.V., Inzh.; ZUBRITSKIY, V.V., Inzh.

Architectural appearance of a modern seagoing vessel. Sudostroenie  
30 no.10:14-17 0 '64.  
(MIRA 17:12)

ZUBRITSKIY, Vladimir Ivanovich; SAKHAROV, Sergey Mikhaylovich;  
FIONOV, Nikolay Ivanovich; SKOBELING, L.V., red.

[Transportation within a port] Vnutriportovyi transport.  
Moskva, Transport, 1965. 165 p. (MIRA 18:10)



"Tendentsii razvitiya sovremennoy dukhovnoy kul'tury kechua."  
report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences,  
Moscow, 3-10 Aug 64.

STARCHENKO, D.I., prof., doktor tekhn.nauk; VLASOV, T.P., inzh.; RAKHLIN, TS.M.,  
inzh.; PETIN, A.G., inzh.; ZUBRIY, I.A., inzh.; BOGDANOV, A.K., inzh.

Mastering the rolling of an economical tee bulb bar on a 450 mill. Stal'  
23 no.12:1108-1109 D '63. (MIRA 17:2)

1. Zhdanovskiy metallurgicheskiy institut i Zhdanovskiy zavod tyazhelogo  
mashinostroyeniya.

ZUBRIY, P. Ye. and DADENKOV, Yu. N.

"Gidrotekhnicheskiye Raschety" (Ucheboye Posobiye dlya  
Shrdentov Dorozhnostriitel'nykh i Gidromeliorativnykh Spatsial'nostey  
Vuzov i Tekhnikumov)

Kiev Gosetekhizdat Ukrainy 1949 ch. 1  
Gidravlicheskiye Raschety Vodootvodnykh Rusel  
216 pages

~~SECRET~~ ~~Top Secret~~, kand. tekhn.nauk, dots.

Hydraulic design of culvert pipes having various cross sections  
taking into consideration the water accumulation in front of the  
installations. Trudy Kiev. avt.-dor. inst. no.3:129-133 '57.  
(Road drainage) (MIRA 11:5)

124-58-9-9874

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 9, p 58 (USSR)

AUTHOR: Zubriy, P. Ye.

TITLE: The Hydraulic Calculation of Road-drainage Pipes of Differing Cross Sections With Consideration of the Accumulation of Water Upstream (Gidravlicheskiy raschet dorozhnykh trub razlichnogo poperechnogo secheniya s uchetom nakopleniya vody pered sooruzheniyem)

PERIODICAL: Tr. Kiyevsk. avtomob. -dor. in-ta, 1957, Nr 3, pp 129-133.

ABSTRACT: The method previously developed by the author (ref. Tr. Kiyevsk. avtomob. -dor. in-ta, 1955, Nr 2, pp 125-134; RzhMekh, 1955, Nr 11, abstract 6124) for the hydraulic calculation of circular road-drainage pipes (with consideration of the accumulation of water upstream thereof) is extended in the present paper to pipes of generic cross section. The substance of the method is not altered; only, in lieu of the pipe diameter, the cross-sectional area is determined.

1. Pipes--Hydrodynamic characteristics
2. Mathematics--Applications  
N. P. Rozanov

Card 1/1

DADENKOV, Yuriy Nikolayevich, doktor, tekhn. nauk, prof.; ZUBRILY.  
Petr Yefremovich, kand. tekhn. nauk, dots.; ALEKSANDROVSKIY, A.,  
red.; KORSALOVICH, A., red.; FRIDMAN, S., tekhn. red.

[Hydraulic calculations of open channels] Gidravlicheskie ras-  
chetny otkrytykh rusel. Kiev, Gos. ind-vo lit-ry po stroit. i  
arkhit. USSR, 1961. 200 p.  
(Hydraulics) (MIRA 14:5)

ZUBRIY, P. Ye.

"Investigation of the Flow of Storm Waters Through Highway Pipes." Cand  
Tech Sci, Kiev Polytechnic Inst, Kiev, 1954. (RZhMekh, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher  
Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

Card 1/2

UDC: 621.791.856:669.71

ACC NR: AP7004202

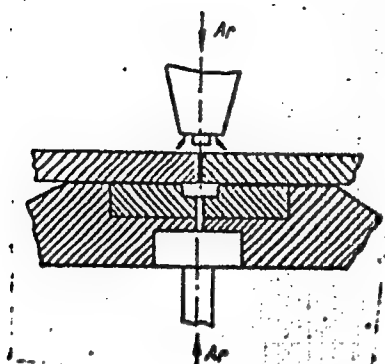


Fig. 1. Two-sided protection of welded joint with argon.

SUB CODE: 11, 13/ SUBM DATE: 20May66/ ORIG REF: 001/ OTH REF: 002/  
ATD PRESS: 5115

Card 2/2



ZUBROVA, Ye.A.

Hydrogeological characteristics of the southeastern part of the  
Crimean Mountains. Izv. vys. ucheb. zav.; geol. i razv. 2 no.6:  
93-103 Je '59 (MIRA 13:3)

1. Moskovskiy geologorazvedochnyy institut im. S. Ordzhonikidze.  
(Crimean mountains--Water, Underground)

ZUBROVICH, V. S. inzh.

Solution to eliminate images on positive light-sensitive paper.  
Mashinostroitel' no.10:41 O '57. (MIRA 10:11)  
(Photography--Printing paper)

OZOL, V.Ya., insh.; ZUBROVICH, V.S., insh.

Noncontact oleo-pneumatic transmitters. Mashinostroitel' no.9:30-31  
§ '57. (MIRA 10:9)

(Automatic control)

ZUBROVICH, V.S., inzhener.

Ejectors used for pumping out fluids and air, Mashinostroitel'  
no.8:25 Ag '57. (MLBA 10:8)

(Pumping machinery)

GUTNER, I.I.; ZUBRYAKOV, S.V.; SOLOV'YEV, Ye.N.

Embryonic innervation of the stomach and intestines in man.  
Dokl.AN SSSR 124 no.2:428-431 Ja '59. (MIRA 12:1)

1. Yaroslavskiy meditsinskiy institut. Predstavleno akademikom  
N.N Anichkovym.  
(EMBRYOLOGY, HUMAN) (ALIMENTARY CANAL---INNERVATION)

17(1)

AUTHORS:

Gutner, I. I., Zubryakov, S. V., Solov'yeva, Ye. N. SOV/20-124-2-53/71

TITLE:

On Stomach and Intestine Innervation in Human Embryos (K innervatsii zheludka i kishechnika u cheloveka v embrional'nom periode)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 2, pp 428-431 (USSR)

ABSTRACT:

The plexus myentericus was described already at the beginning of the sixties of last century and since then has been continuously investigated. However, the structure of the nerve cells mentioned in the title has been investigated only in the last decades. A survey of publications is then given (Refs 1-8). Data on the nerve cells of the plexus myentericus, especially concerning the length of the appendages are very contradictory. The authors investigated the structure of the nerve cells of the plexus myentericus in 25 embryos and fetuses (length: 7-41 cm, age: 2.5-8 months) in the stomach (body and pylorus), duodenum, in the caudal section of the small intestine and in the rectum. The appendages of the nerve cells were found in embryos and fetuses of different age (Figs 1-4). In any case a

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On Stomach and Intestine Innervation in Human Embryos BOV/20-124-2-53/71

great number of neurons with 5-6 appendages which are longer than the cellular bodies, can be found in all intestinal sections at an age of about 5 months (length: 24-26 cm); moreover, they have a very long axon. The shape of the cells becomes slightly or considerably more complicated some months later. The main part of the elements of the plexus myentericus remained without appendages on cuts. Since the silvering methods applied are not reliable it is uncertain whether the observations made fully correspond to reality. Therefore, the authors use very carefully the denotations undifferentiated or neuroblasts of the cells which are "apolar" according to their exterior. For the same reason the data of appearance of the elements with appendages of the various sections of the stomach and intestine can hardly be ranged as such. In any case it was proved by the investigations mentioned that beginning with the 5th or 6th month of the embryo's life complex nerve cells can be found in Auerbach's plexus of the stomach and intestine. They have dendrites as well as neurites and are thus able to enter these or those reflex arches. Complex receptors were found in embryos 12, or 22-45 cm long, i.e. in the individual parts of the intestine (Refs 8,9). Also the authors found com-

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On Stomach and Intestine Innervation in Human Embryos SOV/20-124-2-53/71

plex nerve endings in fetuses of an age of 5-7 months (Fig 4). The above data make it possible to form an idea of the nerve substratum which permits intestinal and gastric activity of the fetuses beginning with the 6th month. It is generally known that such premature births can be bred with the necessary care. There are 4 figures and 11 references, 9 of which are Soviet.

ASSOCIATION: Yaroslavskiy meditsinskiy institut (Yaroslavl' Medical Institute)

PRESENTED: September 18, 1958, by N. N. Anichkov, Academician

SUBMITTED: September 16, 1958

Card 3/3



ZUBRYCH, Ina

A source of strong emotions. Rab. 1 sial. 37 no.1:16-17 Ja '61.  
(Music—Philosophy and aesthetics) (MIRA 14'2)

RUZHAYNIKOV, V.T.; ZUBRZHITSKIY, M.V.

Is right-handedness unavoidable? Priroda 53 no. 11:98-101 '64.  
(MIRA 18:1)

1. Odesskiy gosudarstvennyy universitet im. I.I. Mechnikova.

NOWICKI, B.; OLBRYCHT, T., prof., dr.; ZUBRZYCKA, L.

Investigations of the relationship between the external appearance and utility characteristics by the Wrocław taxonomy method. Zastos mat 5 no.4:333-340 '61.

1. Katedra Ogólnej Hodowli Zwierząt Wyższej Szkoły Rolniczej we Wrocławiu, kierownik: Prof. Dr. T. Olbrycht, i Instytut Matematyczny Polskiej Akademii Nauk.

KOPOCINSKI, B.; ZUBRZYCKA, L. (Wroclaw)

Remark on the division of systems of features into harmonized  
subsystems. Zastos mat 7 no.3:317-321 '64.

BARTKOWIAK, A.; ZUBRZYCKA, L. (Wroclaw)

Polish language studies with the use of mathematical methods.  
Rocz wiad matem 7 no.1:87-97 '63.

ZUBRZYCKA, L. (Wroclaw)

Adaptation of the typewriter keyboard to the structure of the language.  
Zastos mat 6 no.4:419-439 '63.

ZUBRZYCKI, January

Problem of resort therapy of female sterility. Gyn.polska 30  
no.3:415-419 My-Je '59.

1. Z Oddziału Chorob Kobiety Miejskiego Szpitala w Gdyni  
Ordynator: prof. dr J. Zubrzycki.

(STERILITY FEMALE ther)  
(BALNEOLOGY)

ZUBRZYCKI, January.

Prevention of injuries of the ureters in gynecological surgery.  
Gin. polska 27 no.1:117-129 1956.

1. Z Kliniki Położnictwa i Chorob Kobięcych Akademii Medycznej  
w Gdańsku. Kierownik: prof. dr J. Zubrzycki. Gdynia: Miejski  
Szpital, ul. Migaty 1.

(URETERS, wounds and injuries,  
surg. in gyn. operations, prev. (Pol))

(GENITALIA, FEMALE, surgery,  
prev. of ureteral inj. (Pol))

(WOUNDS AND INJURIES,  
ureters in gyn. surg., prev. (Pol))



ZUBRZYCKI, January

Effort urinary incontinence and vaginal suspension of bladder.  
Gin. polska 28 no.3:363-368 May-June 57.

1. Z Oddziału Chorob Kobięcych Miejskiego Szpitala w Gdyni  
Ordynator: prof. dr. J. Zubrzycki. Adres autora: Gdynia,  
Świętojańska 35.

(URINATION DISORDERS, surg.

incontinence, effort, vaginal fixation of bladder (Pol))

ZUBRZYCKI, January

Cases of unusual complications of cervical cancer. Polski  
tygod. lek. 11 no.48:2035-2037 26 Nov 56.

1. (Z Oddziału Chorob Kobiety Szpitala Mińskiego w Gdyni;  
ordynator: prof. dr. J. Zubrzycki) Gdynia, ul. Swietojanska  
33/35.

(CERVIX NEOPLASMS, in pregnancy,  
extra-uterine, surg. (Pol))  
(PREGNANCY, ECTOPIC, complications,  
cancer of cervix, surg. (Pol))

ZUBRZYCKI, January

Indications for the treatment of female genital diseases in open and closed health resorts. Polski tygod. lek. 11 no.29:1281-1284 16 July 56.

1. Z Oddziału Chorob Kobietych Miejskiego Szpitala w Gdyni i  
Ośrodka naukowego w Polczynie-Zdroju; kierownik: prof. dr.  
J. Zubrzycki. Gdynia, Switojanska 33/35, m. 2.  
(GYNECOLOGICAL DISEASES, therapy,  
indic. (Pol))

ZUBRZYCKI, Jerzy, arch.

Building for camping sites. Architektura Pol no. 7/8:270-271 '61.

ZUBRYZYCKI, S. (Wroclaw)

Problem concerning the simultaneous duration of several phenomena.  
Docz prace matem no.7:7-9 '62.

ZUERZYCKI, S. (Wroclaw)

Some approximate integration formulas of statistical interest.  
Col math 11 no.1:123-136 '63.

ZUBRZYCKI, S. (Wroclaw)

Minimax estimation of the size of a population. Zastos  
mat 7 no.2:183-194 '64.

Remarks on a probabilistic model of variability on a plane.  
Ibid.:219-222

ZUBRZYCKI, Stefan

"Differential and integral calculus for statisticians and  
economists" by T. Czechowski. Reviewed by Stefan Zubrzycki.  
Rocznik matematyczny 7 no.1: 156-157 '63.



ACCESSION NR: AT4033606

P/2523/63/011/001/0123/0136

AUTHOR: Zubrzycki, S. (Wroclaw)

TITLE: Some approximate integration formulas of statistical interest

SOURCE: Polska akademia nauk. Instytut matematyczny. Colloquium mathematicum, v. 11, no. 1, 1963, 123-136

TOPIC TAGS: integration formula, statistics, numerical characteristic, shapeless product, minimax risk, games theory

ABSTRACT: The present paper is a continuation of work by other authors to find a more accurate method than random sampling for estimating the mean value of a numerical characteristic of a shapeless product. The problem comes down to defining the location of a given number of measurement points which will ensure the least possible estimation error. Geometric representations are provided by way of illustration -- and appropriate integration formulas for the mean numerical characteristic are written -- for three-dimensional (a bale of cotton or a bag of corn), two-dimensional (a conical heap of loose material poured from a conveyor), and one-dimensional (loose material lying in a railway car)

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ACCESSION NR: AT4033606

examples. The author then treats a given class of functions  $f(r)$ ,  $0 \leq r \leq 1$  ( $r$  being the ratio of two segments of the line connecting the surface of the body and a known distinguished point of the body) in two theorems for bounded non-decreasing functions and for similar functions which independently fulfil a Lipschitz condition, deriving appropriate minimax linear approximate integration formulas with  $n-1$  nodes, where  $n$  is the disjoint parts of the segment. The two theorems are written as statements about estimation games between nature and the statistician; after solving these problems in terms of the minimax risk of the statistician, the author rewrites them so as to derive formulations pertinent to approximate integration with respect to an arbitrary finite absolutely continuous measure.

ASSOCIATION: none

SUBMITTED: 18Feb63

DATE ACQ: 10May64

ENCL: 00

SUB CODE: MA

NO REF SOV: 003

CITER: 003

Card 2/2

ZUBRZYCKI, S. (Wroclaw)

Remark on the probabilistic description of sedimentary deposits.  
Zastos mat 6 no.2:199-208 '62.

ZUBRZYCKI, S. (Wroclaw)

Recursive formula for the number of restricted partitions. Zastos  
mat 6 no.2:231-234 '62.

ZUBRZYCKI, S. (Wroclaw)

Concerning Yule's characteristic of style. Zastos mat 4 no.4:  
328-331 '59. (KEAI 9:7)

1. Mathematical Institute of the Polish Academy of Sciences.  
(Style, Literary)  
(Language and languages)  
(Distribution (Probability theory))

ZUBRZYCKI, S.

On the game of Banach and Mazur. In English. p. 227.  
(COLLOQUIUM MATHEMATICUM. Vol. 4, no. 2, 1957, Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, no. 12, Dec. 1957.  
Uncl.

KAMIONKA, Jerzy, mgr inż.; ZUBRZYCKI, Zbigniew, inż.

A passenger ferry for Swinoujscie. Bud okretow Warszawa  
9 no.11:379-382. N '64.

1. Office of Design and Studies of River Craft, Wroclaw.

ZUBRZYCKI, Z. J.

A. Z. Budzynski, Z. J. Zubrzycki and I. G. Campbell: "Radiometric estimation of unsaturated fatty acids on chromatograms," Nature, Vol. 182, No. 4629, 19 Jul 58. pp. 178-79.

Submitted from the Radiobiological Laboratory, Health Department, and the Department of Radiochemistry, Institute for Nuclear Research, Polish Academy of Sciences, Warsaw, 10 April 1958.



ZUBRZYCKI, January

Technical inadequacies in connection with translocation of the uterus between urinary bladder and vagina. Gyn. polska 28 no. 5: 663-671 Sept-Oct 56.

1. Z Oddziału Chorob Kobiectych Miejskiego Szpitala w Gdyni  
Ordynator: prof. dr. J. Zubrzycki, Gdynia, Swietojanska 33/35

m. 2.

(UTERUS, surgery  
hysteropexy, inadequacies of technic, prev. (Pol))

ZUBRZYCKI, January

~~RECURRENT PROLAPSE OF THE VAGINA AND UTERUS~~  
Recurrent prolapse of the vagina and uterus following fixation to abdominal membrane. Polski tygod. lek. 10 no.38:1237-1240 19 Sept 55.

1. Z Kliniki Poloznictwa i Chorob Kobietych A.M.G.; kierownik: prof. dr. J. Zubrzycki.

(UTERUS, diseases,

prolapse, surg. fixation to abdom. membranes, postop. recur.)

(VAGINA, diseases,

prolapse, surg. fixation to abdom. membranes, postop. recur.)

ZUBRZYCKI, January

Vesicovaginal fistulas as sequelae of birth injuries. Polski tygod.  
lek. 9 no.24;753-756; contd. 14 June 54.

1. Z Kliniki Położnictwa i Chorob Kobietych Akademii Medycznej w  
Odansku, kierownik: prof. dr J. Zubrzycki.  
(FISTULA, VESICOVAGINAL, etiology and pathogenesis,  
obst. inj.)  
(DELIVERY, complications,  
obst. inj. causing vesicovaginal fistula)

ZUBRZYCKI, January (Gdansk-Wrzesz, ul. Kliniczna 1)

Vesicovaginal fistulas as sequelae of obstetric trauma. Polski  
tygod. lek. 9 no.25:786-787; concl. 21 June 54.

1. Z Kliniki Położnictwa i Chorob Kobietych Akademii Medycznej w  
Gdansk, kierownik: prof. dr J. Zubrzycki.  
(DELIVERY, complications,  
obst. inj. causing vesicovaginal fistula)  
(FISTULA, VESICOVAGINAL, etiology and pathogenesis,  
obst. inj.)

ZUBRZICKI, S.

The optimal method of water meter acceptance. p.199.  
ZASTOSOWANIA MATEMATYKI (polska Akademia Nauk. Instytut Matematyczny) Warszawa  
Vol. 2, no. 2, 1955

So. East European Accessions List Vol. 5, No. 9 September 1956

ZUBRZYCKI, S.

The estimating of ore deposits as a statistical problem. p. 415.

PRZEGLAD GEOLOGICZNY. (Wydawnictwa Geologiczne) Warszawa. Poland.  
Vol. 7, no. 9, Sept. 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 7, no. 2, Feb. 1959.

Uncl.

ZUBRZYCKI, S. (Wroclaw)

Operations research. Rocznik matematyczny 4 no. 3:271-281 '61.

(Operations research)

ZUBRZYCKI, S.

"Some Inequalities Between the Moments of Equivalent Random Variables", P. 59,  
(POLSKA AKADEMIA NAUK, Vol. 2, No. 2, 1954, Warsaw, Poland)

SO: Monthly List of East European Accessions (MEAL), LC, Vol. 4, No. 3,  
March 1955, Uncl.



LUCZKIEWICZ-MULCZYKOWA, Anna; SCHLESINGER, Danuta; ZUBIZYCKI, Stefan

The linkage of genes Dd and Ee based on observation of the Polish population. Arch. immun. ter. dow. 9 no.4:801-808 '61.

1. Department of Blood Groups, Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Wrocław.

(CHROMOSOMES)

LUBRICATION

4642  
Szymanski, S. Lubrication: A New Method of Technical Under Water  
Documentation

It is a new method of documentation, based on the principle of the  
under water method, which is a new method of documentation.

The paper describes the method of documentation, which is a new method of documentation.

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BOMSKA, Halina; FIDELSKI, Ryssard; MACIOL, Karol; ZUBRZYCKI, Zdzisław

Observations on blood components and on the course of certain  
biochemical processes during preservation of the blood. Polskie  
arch. med. wewnetrz. 23 no.4:433-454 1953.

*stokiem blood donors*  
1. Ze stacji Krwiodawstwa w Poznaniu. Dyrektor: dr med.  
R. Fidełski.

(BLOOD TRANSFUSION,

\*preserved blood, biochem. aspects)



ZUBRZYCKI, Z.; BUDZYNSKI, A.

Chromatographic separation of erucic acid from saturated and nonsaturated higher fatty acids. p.1425.

ROCNIKI CHEMII. Warszawa, Poland. Vol. 32, no. 6, 1958.

Monthly List of East European Accessions (EEAI), IC. Vol. 8, No. 9, September 1959  
Uncl.

**Application of radioisotopes to the quantitative chromatography of fatty acids.** A. Z. Rudyzaki, Z. I. Zuprych, and L. G. Campbell (Inst. Badan Jadownych, Warsaw). *Nukleonika* 5, Spec. No. 133-4 (1958) (in English).—Mixts. of satd. and unsatd. fatty acids (as 2% soln. in ether) were chromatographed for 18 hrs. on Schleicher and Schüll 598 L paper, strips 18 X 280 mm., the 20% ether soln. of mepesine, a hydrocarbon mixt. b. 180-200°, of Br no. less than 0.10, being the stationary phase, and the 90% aq. AcOH previously satd. with mepesine being the mobile phase. Strips dried at 60° in N atm. for 1 hr. were immersed for 150 min. in 0.5 ml. of a soln. of activity 5  $\mu$ C. obtained by adding  $\text{Na}^{124}\text{I}$  to 100 ml. aq.  $\text{NaI}$  +  $\text{KAlO}_2$  (0.0022 and 0.0044M, resp.) followed by addn. of  $\text{H}_2\text{SO}_4$  to 0.025M concn. An app. was devised for comparative detn. of spot activities, in which the radiation entered the mica window of the counter through a slit in the Perspex plate.  $\text{Sr}^{90}$  and  $\text{I}^{131}$  sources were standards. Integrated spot activities corrected for the background, and spot length, varied linearly

with linoleic or oleic acid (satd.); max. spot activities, acid for a rectangular area 1 mm. wide, varied linearly with the log of spot content, all within 50-300  $\gamma$  acid. Attempts were made to reduce the background activity; use of solns. contg. less than 5  $\mu$ C.  $\text{I}^{131}$ /ml. prolonged detn.; washing with  $\text{HNO}_3$  or  $\text{H}_2\text{O}_2$  caused complete loss of spot activity; reducing agents were ineffective; evapn. of excess ketone from strips was recommended. Satd. fatty acids were est. by ppcg. Ag soaps subsequently treated with  $\text{I}^{131}$ . Chromatograms were immersed for 15 min. in 0.03M  $\text{Ag}(\text{OAc})$ , washed 3 times for 5 min. in water, immersed for 15 min. in 0.01M  $\text{NaI}$  of 4  $\mu$ C./ml. activity, washed as before and dried at room temp. in darkness. The relations found for unsatd. acids were confirmed for stearic and palmitic acids. The Ag-soap procedure was inadequate for unsatd. acids and was superior to ppcn. of soaps with radioactive esters such as  $\text{Zn}^{65}$ . Combination of both procedures described permitted estn. of the contents of all 4 acids. J. S. Sack

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7  
Radiometric estimation of unsaturated fatty acids on chromatograms. A. Z. Rudzinski, Z. J. Zolnyski, and J. G. Campbell (Radiophol. Lab., White Plains, N.Y. 10614) (1958).—Unsaturated fatty acids, sep'd. by partition paper chromatography, are quantitatively est'd. by using 5981 paper strips with a mixt. of very low b.p. hydrocarbons boiling at 180–200° as stationary and 95% AcOH sat'd. with the hydrocarbon as mobile phase in ascending reversed-phase chromatography under N<sub>2</sub>. The hydrocarbon mixt. is applied to the strips as a 20% soln. in freshly dist'd. Et<sub>2</sub>O free of peroxides, the Et<sub>2</sub>O being evap'd. After chromatography, the strip is dried at 80° for one hr. in N<sub>2</sub>, then immersed in 6.6 ml. of a soln. of 0.0027M NaI, 0.0044M NaIO<sub>3</sub>, and contg. 8 microcurie/ml. of <sup>131</sup>I as I<sup>-</sup>. The soln. is made 0.025M in H<sub>2</sub>SO<sub>4</sub>, and after incubation for 150 min., the strip is removed and dried overnight at room temp., during which time, excess unbound <sup>131</sup>I is given off. Distribution of <sup>131</sup>I-activity is det'd. by drawing the strip in 1 mm. steps under a 2 mm. X 15 mm. slit in a "Perspex" screen 4 mm. thick located under an end-window Geiger-Müller counter with window thickness 4 mg./sq. cm. Both

oleic and linoleic acid give a reproducible linear relation indicative of proportional iodination when integrated spot activity is plotted against amts. of acid (spot content). The method has been used to det. max. spot activity and to relate these to spot content. The method allows detn. of max. spot thickness.

Myron N. Loughich

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58  
1/1





Distr: 4E3c/4E3d

Quantitative evaluation of chromatograms by double decomposition with simple radioactive reagents. 1. Use of silver-111 iodide in radiometric estimation of organic and inorganic acids. Z. L. Kulczycki, A. Z. Rucinski, and J. G. Campbell (Inst. General Research, Warsaw, Poland), *Talanta* 2, 165-70 (1969). The method of double decomposition of fatty acids, inorganic phosphates, and glucose-1-phosphates on paper chromatograms, by forming insol. Ag salts on the paper strip, followed by decomposition of the salt with  $\text{I}^{131}\text{I}^-$ , and radiometry of the  $\text{AgI}$  deposit. Integrated activities of spots are linearly related to spot content for fatty acids and phosphates, but not for glucose-1-phosphate. The max. (peak) spot activity is proportional to the log of spot content for fatty acids and phosphates, but not for glucose-1-phosphate. Bella L. Hargreaves

BUDZYNSKI, Andrzej Z.: ZUBRZYCKI, Zdzislaw J.

Separation of higher fatty acids from erucic acid means paper chromatography. Chem anal 4 no.5/6:903-908 '59. (KEAI 9:9)

*Pracechun /Kallt/*  
1. Zaklad Ochrony Zdrowia, Pracownia Biochemiczna, Instytut  
Badan Jadrowych Polskiej Akademii Nauk.  
(Fatty acids) (Chromatography) (Erucic acid)

ZUBRYAKOV, S. V., Cand Med Sci -- (diss) "Changes due to age in the nerve cells of the urinary bladder walls, of the Auerbach's plexus of the rectum and the hypogastric plexus in men." Stalingrad, 1960. 19 pp; (Stalingrad State Medical Inst); number of copies not given; price not given; (KL, 30-60, 140)

ZUBYAN, G.D., kandidat fiziko-matematicheskikh nauk

Some characteristics of the cloud system of slow moving fronts.  
Meteor. i gidrol. no. 2:25-27 F '53. (MLRA 8:9)  
(Clouds)



B/503/62/015/000/002/003  
A001/A101

AUTHORS: Karimov, M. G., Antushevich, M. I., Berlikanova, K. K., Dosybayev,  
S. K., Zubtsov, A. S.

TITLE: Photometry of solar flares according to observations of the coronal  
station near Alma-Ata during 1960 - 1961

SOURCE: Akademiya nauk Kazakhskoy SSR. Astrofizicheskiy institut.  
Izvestiya. v. 15, 1962, 77 - 110

TEXT: The present article is a continuation of the study of the same  
authors published in 1962 in the v. 14 of the same source. Film frames were  
taken in intervals of 30 sec, sometimes 15 sec and one minute. Prior to photo-  
metrical processing all frames of the flares were preliminarily examined, and  
flares were selected which had characteristic peculiarities in some features.  
During two years 63 flare photographs were selected, carefully processed and  
the data are tabulated. For individual, most pronounced knots are plotted curves  
of flare development. The graphs in the article contain information on intensi-  
ty of individual knots, expressed in terms of intensity of undisturbed places of

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Photometry of solar flares according to...

S/503/62/015/000/002/003  
A001/A101

the solar disk, versus time of flare development and changes in the area of flares. Both quantities, ratios of intensities and areas are plotted on ordinates, the first on the left-hand side and the second on the right-hand side; abscissa serves as time coordinate for both quantities. The upper right-hand corner of figures contains a sketch of the flare with all its details, sunspots, flocculi, foci of flares, etc. The photometric study of the flares shows that their existence strongly depends on the center of activity. They have a special relation to sunspots and flocculi fields. Curves of variations of brightness and area have a series of characteristic features where this relation is close. There are 62 figures and 1 table.

Card 2/2

KARIMOV, M.G.; ANTUSHEVICH, M.I.; BERLIKENOVA, K.M.; DOSYBAYEV, S.K.;  
ZUBTSOV, A.S.

Photometry of solar flares observed at the coronal station  
near Alma-Ata in 1960-1961. Izv.Astrofiz.inst.AN Kazakh.SSR  
15:77-110 '62. (MIRA 16:1)

(Solar flares)



KARIMOV, M.G.; ZUBTSOV, A.S.; ANTUSHEVICH, M.I.; DOSYBAYEV, S.K.

Photometry of solar flares. Izv.Astrofiz.inst.AN Kazakh.SSR.  
14:93-106 '62. (MIRA 15:8)

(Sunspots)

S/503/62/014/000/006/007  
I023/I223

AUTHORS: Karimov, M.G., Zubtsov, A.S., Antushevich, M.I.  
and Dosybayev, S.K.

TITLE: Photometry of solar flares

PERIODICAL: Akademiya nauk Kazakhskoy SSR. Astrofizicheskiy  
institut. Izvestiya. v.14. 1962, 93-106

TEXT: Results concerning the photometry of flares of  
intensity  $\geq 2$ , observed from October 1957 till the end of 1959,  
are presented. The observation were done at a height of 2600 m  
by means of a chromospheric-photospheric telescope of type AQP-2  
(APR-2). The line  $H_\alpha$  was photographed through an interference-  
polarization filter with band width of 0.6 Å on a standart, 35-mm

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Photometry of solar flares

S/503/62/014/000/006/007  
I023/I223

[Soviet State Standard]

panchromatic film (sensitivity 1000-1200 GOST/units). The rate was 2 frames per minute, sometimes 8 or 4. Several typical photographs are given. A table, containing all 17 flares, is also given. The table gives the time, position and intensity of each flare. Each flare is analyzed in detail: intensity and area dependence on time are given in a graphical form. There are 18 figures and 1 table. ✓

Card 2/2

LODISOV, M.F.

Tekhnologiya kholodnoi shtampovki. Dop. v kachestve uchebn. posobiia  
dlia vyssh. tekhn. uchebn. zavedenii. Moskva, Mashgiz, 1950.

463 p. plates, diags.

Bibliography: p.(455)-457.

(Technique of cold stamping.)

DLC: TJ1255.Z8

S0: Manufacturing and Mechanical Engineering in the Soviet Union,  
Library of Congress, 1953.

ZUBTSOV, Mikhail Yefimovich, dotsent, kand.tekhn.nauk; LESITSYN, V.D.,  
dotsent, kand.tekhn.nauk, red.; QVITS, V.L., tekhn.red.

[Increasing the durability of dies for cold die stamping]  
Povyshenie stoikosti shtampov dlia kholodnoi shtampovki.  
Leningrad, 1960. 83 p. (MIRA 14:3)  
(Dies (Metalworking)) (Sheet-metal work)

ZUBTSOV, M.Ye.; ROMANOVSKIY, V.P., prof., red.; LEYKINA, T.L., red.  
izd-va; BARDINA, A.A., tekhn. red.

[Foreign achievements in the field of sheet-metal work) Zarubesh-  
nye dostizheniia v oblasti kholodnoi shtampovki. Pod red. V.P.  
Romanovskogo. Moskva, Mashgiz, 1962. 73 p. (Bibliotekha shtam-  
povshchika, no.10) (MIRA 16:2)

(Sheet-metal work)

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, SOV/137-57-6-9958  
AUTHOR: Zubtsov, M.Ye. Nr 6, p 89 (USSR)

TITLE: Problems of Precision in the Blanking of Large Parts (Voprosy  
tochnosti shtampovki-vyrubki krupnogabaritnykh detaley)  
PERIODICAL: V sb.: Progressiv. tekhnol. kholodnoshtamp. proiz-va. Moscow-  
Leningrad, Mashgiz, 1956, pp 61-71

ABSTRACT: An examination is made of the factors influencing the blanking  
(B) of large parts. An analytical method of determining the magni-  
tude of deformation in B is presented. The data of investigations  
conducted to study the effect of various factors on the blanking of  
Nr E2B steel electrical machine stator and rotor sheets is adduced.  
Measures to ensure the accuracy of B of large parts are indicated.  
V.S.

Card 1/1

PHASE I BOOK EXPLOITATION

SOV/2044

25(1)

Zubtsov, Mikhail Yefimovich, Candidate of Technical Sciences, Docent  
Listovaya shtampovka (Sheet Stamping) Moscow, Mashgiz, 1958. 495 p.  
Errata slip inserted. 1,500 copies printed.

Reviewers: I.A. Noritsyn, Doctor of Technical Sciences, Professor, and  
V. Ye. Nedorezov, Candidate of Technical Sciences; Ed.: V.D. Lisit-  
syn, Candidate of Technical Sciences, Docent; Ed. of Publishing  
House: Ye.S. Kushlyu; Tech. Ed.: R.G. Pol'skaya; Managing Ed. for  
Technical Machine Building (Leningrad Division, Mashgiz): Ye.P.  
Naumov, Engineer.

PURPOSE: The book is intended as a textbook for vtuzes. It can also  
be used by engineers planning fabricating processes, designing dies,  
and developing theoretical problems of sheet stamping.

COVERAGE: The book deals with the problems of cold and hot sheet  
stamping. Suitability of parts for stamping, rules for planning  
the manufacturing processes, and the fundamentals of engineering  
standardization of stamping operations are discussed. The typi-  
cal and more interesting constructions of dies, design methods, and  
Card 1/17



# Sheet Stamping

SOV/2044

calculations of basic parts for strength are presented. The problems of mechanization and automation of sheet forming processes, safety techniques, and organization of the working place are analyzed. No personalities are mentioned. There are 120 references: 112 Soviet, 5 English, and 3 German.

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### PART I. SHEET STAMPING PROCESSES

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1. Field of application of sheet stamping

2. Classification of sheet stamping processes and operations

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Card 2/17

ROMANOVSKIY, Viktor Petrovich, dots., kand. tekhn. nauk; ZUBTSEV, M. Ye.,  
dots., kand. tekhn. nauk, red.; KAPLANSKIY, Ye. F., red. izd-va;  
SOKOLOVA, L. V., tekhn. red.

[Ways of increasing productivity in stamping] Puti povysheniya  
produktivnosti v shtampovom proizvodstve. Moskva, Gos.  
nauchno-tekhn. izd-vo mashinostroyeniya, 1955. 28 p. (Biblioteka  
shtampovshchika, no. 1) (MIRA 11:7)  
(Sheet metal work)

ZUBTSOV, Mikhail Yefimovich dots., kand. tekhn. nauk; ZORIN, Nikolay  
Konstantinovich, inzh.; ROMANOVSKIY, V.P., dots., kand. tekhn.  
nauk, red.; HEDOREZOV, V.Ye., kand. tekhn. nauk, red.; LEYKINA,  
T.L., red. izd-va; POL'SKAYA, R.G., tekhn. red.

[Stamping and blanking of large parts] Shtampovka-vyrubka krupno-  
gabaritnykh detalei. Pod obshchei red. V.P. Romanovskogo. Moskva,  
Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1955. 60 p.  
(Bibliotekhka shtampovshchika, no.2). (MIRA 11:7)  
(Sheet metal work)

PHASE I BOOK EXPLOITATION

934

Zubtsov, Mikhail Yefimovich, Candidate of Technical Sciences, Docent, and  
Zorin, Nikolay Konstantinovich, Engineer.

Shtampovka-vyrubka krupnogabaritnykh detaley (Punching Large-sized Parts)  
Moscow, Mashgiz, 1955. 60 p. (Series: Bibliotekhka shtampovshchika,  
vyp. 2) 5,000 copies printed.

Ed.: Nedorezov, V.Ye., Candidate of Technical Sciences; Ed. of Publishing  
House: Leykina, T.L.; Tech. Ed.: Pol'skaya, R.G.; Managing Ed. for  
literature on machine-building technology (Leningrad Division, Mashgiz):  
Nikitin, P.S., Engineer; General Ed: Romanovskiy, V.P., Candidate of  
Technical Sciences, Docent.

PURPOSE: This booklet is intended for workers in press-forming shops as an  
aid in improving skills by means of exchange of progressive work experience  
and the introduction of advanced cold-punching methods.

COVERAGE: This booklet is the second in the series Bibliotekhka shtampovshchika  
(Press Operator's Little Library). It describes the design of dies and the

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Punching Large-sized Parts 934

processes which can be used for blanking and punching large-sized parts in machine-building plants. No personalities are mentioned. There are no references.

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Punching Large-sized Parts 934

9. Engineering and design standards

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AVAILABLE: Library of Congress

GO/afm  
12-12-58

Card 3/3

ZUBTSOV, M.Ye., kandidat tekhnicheskikh nauk.

Accuracy of die punching large machine parts. [Izd.] LONITOMASH  
vol.40:61-71 '56. (MLBA 10:4)  
(Sheet metal work) (Punching machinery)

*Zubtsov, Mikhail Yefimovich*

ZHOLOBOV, Viktor Vladimirovich; BOGOYAVLENSKIY, Konstantin Nikolayevich;  
ZUBTSOV, Mikhail Yefimovich; LANDIKHOV, Aleksandr Denisovich;  
LEKARENKO, Yevgeniy Moiseyevich; POSTNIKOV, Nikolay Nikolayevich;  
MILLER, L.Ye., inzhener, retsenzent; BAZHENOV, M.F., inzhener,  
retsenzent; CHERNOV, A.N., redaktor; STARADUBTSOVA, S.N., redaktor;  
ATTOPOVICH, M.K., tekhnicheskii redaktor.

[Working non-ferrous metals and alloys by pressure] Obrabotka  
tvetnykh metallov i splavov davleniem. Moskva, Gos.nauchno-tekhn.  
izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1955. 486 p.  
(Non-ferrous metals--Metallurgy) (MLRA 8:12)



YE

ZUBTSOV, N

Tekhnologiya Kholodnoy Shtampovki. (Cold Stamping Technology) Moskva, Masngiz, 1950.

463 P. Illus., diagra., tables.

"Literatura I Istochniki": P. 455-457.

Book describes many kinds of cold stamping and discusses scientifically technological problems of stamping, the construction of dies, etc. Manual for students of technical institution.

ZUBTSOV, M. Ye.

"Cold Stamping Technology," bk., Moscow, 1950.

ZUBTSOV, M.Ye., kandidat tekhnicheskikh nauk.

Increasing the durability of dies for cold stamping. (In: Ryzhkov, D.A.,  
ed. *Ekonomiya metallov v kuznechno-shtampovom proizvodstve*. Moskva,  
1953, p.254-268.) (MLRA 7:1)

(Forging) (Punching machinery)

ROVINSKIY, Georgiy Nikolayevich; ROMANOVSKIY, V.P., kand. tekhn.  
nauk, red.; ZUBTSOV, M.Ye., kand. tekhn. nauk, red.;  
LEYKINA, T.L., red. izd-va; BARDINA, A.A., tekhn. red.

[Stamping large parts for the automobile industry] Shtampovka  
krupnogabaritnykh detalei avtomobil'noi promyshlennosti. Pod  
obshchei red. V.P.Romanovskogo. Moskva, Mashgiz, 1962. 73 p.  
(Bibliotekha shtampovshchika, no.5) (MIRA 15:9)  
(Sheet-metal work) (Automobiles)